

NATURE'S INVENTIONS.

A Key to Many a Problem With Which Weak Man is Wrestling.

STOMACH AS A GENERATOR

Teach Us How to Get Electricity Direct From the Fuel.

FIREFLY AND LIGHT QUESTION

WRITERS FOR THE DISPATCH.

After, after, in the great contriver, to all the material there is, with all the time there has been, she has made it her task to find out how everything that lives can do its best estate, and do its work in the easiest way.

As rain falling upon a mountain, she seeks out no guideposts to show it the shortest path to the valley, so the rootlets of a flower need no garden to bid them thicken and multiply along the line where they find most food.

On the arid plains of Arizona a vine, in burrowing downward for moisture, will often have ten times as much growth within the ground as above it; in a fern, the well-watered soil of the vine will descend into the earth hardly a foot.

On the cypress in a swamp of Florida itself to very peculiar circumstances, the growth of the tree near the surface, it spreads out its roots in horizontal lines and at great depth in the soil.

Every wind that stirs the roots and promotes their thrift and strengthens their anchorage. A wealth of roots throw to the surface the seeds, whose effect in bracing the tree against the assaults of tempest fills the designer with admiration.

The survival of the fittest. The transmission of life from the stem to the leaf, a thousand influences conveyed. Little wonder that their roots should be so different from those of the parent.

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as it lies in the mold, and the gun is permitted to cool from the gun circumference with extreme slowness. A gun cast in this way may be regarded as a series of cylinders, the outer ones of which are successively shrunk on the inner; as these inner ones are strongly compressed the force of compression is added to that of the metal's power.

The structure he builds up closely resembles that of the heart. In its two inner parts the fibres of that organ are wound around each other in a spiral, and these in turn are tightly compressed by a covering of other similar fibres.

Let us see how Dandolo, the first optician who succeeded in making achromatic or colorless lenses, went about it. Ascertaining that crown glass dispersed or scattered light only half as much as flint glass, he cut a lens of the crown to a thickness of the latter, obtaining a refracted or bent beam of light almost unchanged in its whiteness.

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These fibrils respond to electrical excitation in a marked degree as to suggest profound physiological similarities. And what adds to this suggestiveness is that the cell's columnar layers and the human fibrils are similarly affected by strychnine and curare.

At such a point as this science seems to be nearing an understanding of the great question. How does food produce work in the animal system? At a temperature a little higher than that of atmospheric air, and very much lower than that of the steam ejected from our engines, every process of nutrition and muscular exertion takes place.

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SUNDAY IN URUGUAY.

It is a Day of Recreation, With a Little Religion Thrown In.

RACES, SALOONS AND THEATERS

Are Taken as a Matter of Course, and Almost Anything Goes.

HOW NATIVES MAKE THEIR BUTTER

(CORRESPONDENCE OF THE DISPATCH.)

MONTEVIDEO, Feb. 23.—Our last day in Uruguay—Sunday at that! I wonder why it is that short trips of special interest to the tourists of Montevideo and Buenos Aires, must always be made at night, the world over, despite the protests of disappointed travelers who thus find themselves deprived of views they came far to obtain?

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IN THE BULL'S EYE.

A Veteran Marksman Tells How to Place Revolver Bullets.

CORRECT POSITION IN AIMING.

RECORDS OF EXPERT AMERICANS

WRITERS FOR THE DISPATCH.

UDGE GILDER never said a truer thing than he did one day on the bench presiding over a man for shooting a cow. He said: "I am more afraid of a revolver in the hands of a careless man than I am of a live rattlesnake." And so is every man who has had experience with firearms.

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WHAT WOMEN WANT TO KNOW.

Shirley Dare Answers Some of the Questions Recently Sent to Her.

Among the questions sent to Shirley Dare recently, the DISPATCH has the following which she has found time to answer:

Mrs. A. B.—Please inform me how to prepare a sulphur bath at home.

A celebrated writer on the skin directs as follows: Boil six ounces of sulphur 15 or 20 minutes in two gallons of water, that is, in a large boiler or tub. Have ready a cane-seated chair, a hot bath for the feet and a large blanket. A rubber blanket to go over this is advisable. Pour the sulphur water into a large earthen or tin pan, raised from the floor by bricks or footstools under the chair, and put into the water half a brick, heated red hot. Seat the patient under the chair, and cover the wrap the blanket round the chair, covering the person all but head and face. This keeps the steam up 20 minutes, after which the patient is wiped dry with warm towels and put to bed as warmly as possible to avoid taking cold.

Mrs. T.—I should like to try sulphur to clear the complexion, but fear it will render my hair brittle. Can you advise me how to use it, or what to do if it does so?

Sulphur is used in both ways. A thin paste of sulphur and milk dried on the face at night is said to whiten it. Taken internally, it is laxative and stimulant to the circulation, lungs and skin in a moderate way. It is used in the treatment of rheumatism, as the common qualities contain sulphuric acid. The washed Sicilian sulphur is the purest and best. Perfectly pure sulphur is obtained from the mountains here and so dissolves completely in oil of turpentine. Half a teaspoonful in milk or white sugar syrup with such magnesia as will make a first thing on rising. Hot soaks and water baths with sulphur should accompany its use, when there will be no danger of reducing flesh. It is highly recommended in chronic rheumatism. The powdered sulphur, as a tonic upon the limbs with flannel and kept on for days till fully absorbed by the skin.

Many persons, doctors among them, have approved of sulphur as a tonic upon the limbs with flannel and kept on for days till fully absorbed by the skin.

Everybody Gambles Openly. Priests and sinners, paupers and ladies of high degree, alike take a hand at baccarat, roulette, and other games of chance, as undisciplined as the simple folk who play cards at a table, or dominoes at a table, or dominoes at a table, or dominoes at a table.

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THE SACRED WHITE ELEPHANT.

TRANSLATED FOR THE DISPATCH FROM THE FRENCH OF GEORGE SAND.

CHAPTER III.

"I lived thus many years in splendor and delight with my dear Aor. We assisted at all ceremonies and festivals; we received visits from foreign ambassadors. I was loaded with presents till my palace became one of the richest museums in Asia. None of the temples were closed to me, and I loved to enter those lofty, shaded chapels, in which the colossal figure of Gautama, glittering with gold, rose like a sun in the farther end of the niches, lighted from above. I even knew how to give offerings to the venerated idol, and how to swing the golden censer before him.

"But no earthly happiness can endure. The King engaged in a disastrous war against a neighboring State. He was vanquished and dethroned. The usurper called him without me. He kept me as a mark of his power and a pledge of his alliance with Buddha; but he had neither kindness nor reverence for me, and my service was soon neglected.

"Aor made complaints, and the servants of the new king conceived a hatred for him, and resolved to put his death to rest. One night, as we were sleeping together, my father rose noiselessly and stabbed him with a dagger. Awakened by his cries, I fell upon the assassin, who took flight. My father was unconscious, his arms were wet with blood. I took all the water in the silver basin and sprinkled him with it, without being able to restore him. Then remember the prayer the physician and monks of the adjoining room, I woke him and brought him to Aor. My friend was devotedly cared for, and came to life again; but he was weaker and less energetic than before. He never went out nor bathed without me. Overwhelmed with sorrow for him, I refused to eat, but lay by his side.

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[THE END.]

WOOD'S PENETRATING PLASTER

FAR IN ADVANCE OF ORDINARY POROUS AND OTHER PLASTERS

Sold by Druggists and Wholesale Dealers